

Types, Uses and Locations of Real-time Biological Monitoring in Europe and the United States



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Abstract

Many different types of real-time biological monitoring (fish behavior and bioelectrical signals, daphnid behaviour toximeter, clam monitors, algal fluorescence change, and luminescent bacteria) have been used in several countries (Germany, Netherlands, France, England) and many locations in Europe. Only a few types of real-time biological monitoring systems (clam gape, fish ventilatory movement and daphnia behaviour toximeter and Algal flurorescence change) have been or are currently used at a few locations (Texas, Florida, Maryland, Tennessee, Ohio) in the United States. We will present the types of real-time biological monitors, their uses, brief descriptions of how they work and their locations in Europe and the United

Material and Methods

The map for Sites with biosensors in Europe was developed by M. Marten, Environmental Protection, Baden-Wuertemberg Germany. The United States Map and sites were developed by James Lazorchak, U.S. EPA, Office of Research and Development, Cincinnati, Ohio. The source of U.S. locations Bernie Daniel provided information on Orange County, CA.

